

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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Claim 1 (currently amended): A digital equipment system comprising:

- a. a host for sending commands to read or write files having sectors of information, each sector having and being modifiable on a bit-by-bit, byte-by-byte or word-by-word basis, said host being operative to receive responses to said commands;
- 5 b. a controller device responsive to said commands, and including,  
one-time-programmable nonvolatile memory for storing information organized into sectors, based on commands received from the host and upon receiving commands from the host to re-write a sector, the controller device for re-writing said sector only on a bit-by-bit, byte-by-byte or word-for-word basis and only as to those locations in the sector that have  
10 been modified.

- 1 Claim 2 (original): A digital equipment system as recited in claim 1 wherein said one-time-  
2 programmable nonvolatile memory includes a system area and a data area, said system area for  
3 storing information pertaining to the organization of the information stored or to be stored in the  
4 data area.

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- 1 Claim 3 (original): A digital equipment system as recited in claim 2 wherein said sytem area  
2 includes storage areas for including Original Engineering Manufacturer (OEM)  
3 identification/Bidirectional Input/Output System (BIOS), a File Allocation Table (FAT) 1, a  
4 FAT 2 and root disk directory information.

1 Claim 4 (original): A digital equipment system as recited in claim 1 wherein said controller  
2 device further includes a first buffer for storing a host-provided sector and a second buffer for  
3 storing sectors stored or to be stored in the one-time-programmable nonvolatile memory.

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1 Claim 5 (original): A digital equipment system as recited in claim 4 further including a  
2 comparator coupled between said first and second buffer for comparing a sector to be modified  
3 or accessed by the host with those sectors to which information has been previously written.

1 Claim 6 (original): A digital equipment system as recited in claim 1 wherein during power-up,  
2 said controller device for identifying the end-of-file, wherein the location following the location  
3 in which the end-of-file resides is identified as the location for the start-of-file of a new file to be  
4 stored.

1 Claim 7(original): A digital equipment system as recited in claim 6 wherein said end-of-file is  
2 identified by the use of a flag.

1 Claim 8(original): A digital equipment system as recited in claim 1 wherein said files are digital  
2 photographs.

1 Claim 9(original):A digital equipment system as recited in claim 1 wherein said files are  
2 archives.

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1 Claim 10(original): A digital equipment system as recited in claim 1 wherein said controller  
2 device maintains a correlation between logical addresses and physical addresses for translating  
3 host-provided addresses to addresses recognized by the one-time-programmable nonvolatile  
4 memory.

1 Claim 11(original): A digital equipment system as recited in claim 10 wherein said controller  
2 for maintaining track of defective locations within the one-time-programmable nonvolatile  
3 memory.

1 Claim 12(currently amended): A digital equipment system comprising:  
2 a. a host for sending commands to read or write files having sectors of information, said host  
3 being operative to receive responses to said commands;  
4 b. a controller device responsive to said commands, and including,  
5 one-time-programmable nonvolatile memory having a spare area, said one-time-  
6 programmable nonvolatile memory for storing information organized into sectors, based on  
7 commands received from the host, and upon commands from the host to re-write a sector, [said  
8 one-time-programmable nonvolatile memory including a spare area,] said controller for mapping  
9 sectors being re-written to the spare area.

1 Claim 13 (original): A digital equipment system as recited in claim 12 wherein said one-time-  
2 programmable nonvolatile memory further includes a system area and a data area.

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1 Claim 14 (original): A digital equipment system as recited in claim 13 wherein said controller  
2 device for identifying a start-of-file location and an end-of-file location and a defective sector  
3 location within the one-time-programmable nonvolatile memory, the latter of which is skipped  
4 over when writing sectors.

1 Claim 15 (original): A digital equipment system as recited in claim 14 wherein the information  
2 that was to be written to the defective sector is instead written to the spare area location.

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1 Claim 16 (original): A digital equipment system as recited in claim 12 wherein said controller  
2 for determining if there is no start-of-file identifier at a location following a corrupted sector or  
3 there is no end-of-file in the rest of the one-time-programmable nonvolatile memory, such  
4 location identified as a corrupted sector due to power failure and designated accordingly so as to  
5 prevent future storage of information therein.

1 Claim 17 (original): A digital equipment system comprising:  
2 a. a host for sending commands to read or write files, said host being operative to receive  
3 responses to said commands;  
4 b. a controller device responsive to said commands, and including,  
5 one-time-programmable nonvolatile memory for storing files and identifying the  
6 start-of-file and end-of-file for a file being stored within the one-time-programmable  
7 memory, wherein during power-up, said controller device for identifying the end-of-file of a  
8 stored file, the location following the location in which the end-of-file resides being  
9 identified as the location for the start-of-file of a new file to be stored.

1 Claim 18 (currently amended): A digital equipment system comprising:  
2 a. a host for sending commands to read or write files having sectors of information, said  
3 host being operative to receive responses to said commands;  
4 b. a controller device responsive to said commands, and including,  
5 one-time-programmable nonvolatile memory having spare locations for storing  
6 sector information, said one-time-programmable nonvolatile memory for storing information  
7 organized into sectors based on commands received from the host and upon receiving a  
8 command from the host to re-write or update a sector, the controller device for writing only  
9 the updated sector to a spare location.

1 Claim 19 (original): A digital equipment system comprising:

2 a. a host for sending commands to read or write files having sectors of information, each  
3 sector having associated therewith an error correction code (ECC) indicative of the  
4 corruption of sector information, said host being operative to receive responses to said  
5 commands;

6 b. a controller device responsive to said commands, and including,

7 one-time-programmable nonvolatile memory for storing information organized into  
8 sectors, wherein said controller checks the ECC of a particular sector for a determination of  
9 whether or not the particular sector is corrupted and if so, reads the information stored within  
10 the next sector and determines if the next sector information is in a non-programmable state  
11 and if so or the ECC associated with the next sector indicates that the next sector information  
12 is corrupt, the controller device identifies an end-of-file.

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